



# BOURBON ORCA

DP2 Anchor Handling Tug Supply Vessel  
 183 Metric ton bollard pull  
 400 Metric ton line pull winch

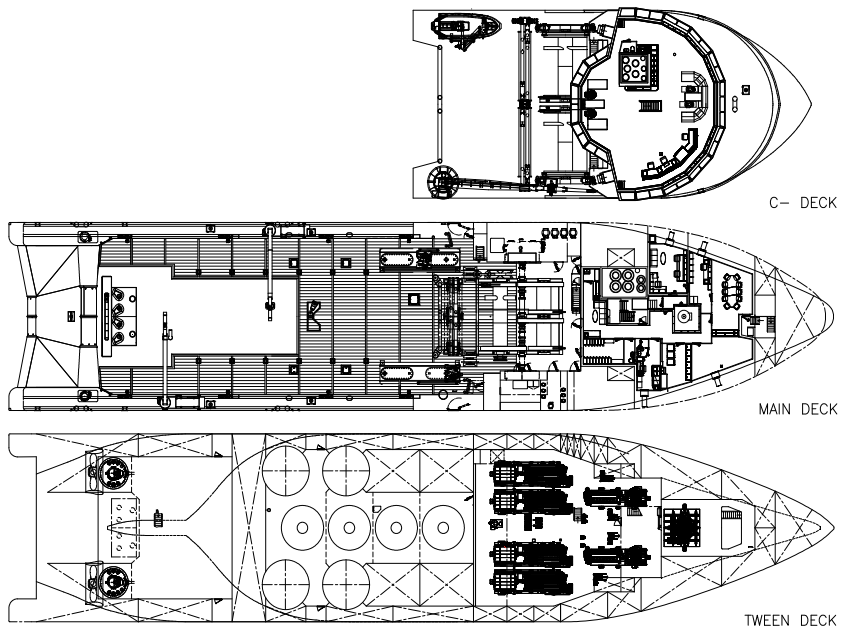


This AX104-design from Ulstein Design is a Diesel electric AHTS with the patented Ulstein X-Bow.

The vessel is equipped with 2 drums water-fall type for towing/working and 1 drum for anchor handling with large capacities, as well as 2 secondary drums.

It is designed for World Wide service, for the purpose of performing and fulfilling the following duties:

- Subsea Intervention services, ROV operations, deepwater precision lifting & installation.
- Transportation of pipes, cement, equipment and liquid cargo to and from Pipelay Vessels, Drilling Platform and ships.
- Arranged for oil recovery operations and Fi-Fi I class.



ANCHOR HANDLING TUG SUPPLY VESSEL

## REGISTRATION

Vessel Name: **BOURBON ORCA**

Type: **DP2 supply vessel AX104 ULSTEIN Design AS**

Year: **2006**

Owner: **Bourbon Offshore Norway**

Builder: **ULSTEIN VERFT AS (Norway)**

Class: **DNV +1A1, Tug Supply Vessel, Fire Fighter 1, SF, COMF-V(3), EO, DYNPOS - AUTR,CLEAN, DK(+), HL(2.5).**

Flag: **Norwegian. NLS certificate.**

Updated: 19-11-2013





# TECHNICAL SPECIFICATIONS

## AHTS - BOURBON ORCA



### MAIN PARTICULARS

#### DIMENSIONS

Length overall:	86.00 m
Breadth moulded:	18.50 m
Depth:	8.50 m
Draft:	7.00 m
Deadweight:	3,180 mt
Bollard pull:	183 mt
Gross/Net tonnage:	4,089/1,226

#### CAPACITIES

Deck area: (10.0 t/m <sup>2</sup> @ aft fr. 48)	(35.00 x 15.40 m) 540 m <sup>2</sup>
Deck cargo:	1,200 mt
Fuel oil (MDO):	1,486 m <sup>3</sup>
Fresh water:	503 m <sup>3</sup>
Drill water/Ballast water:	2,482 m <sup>3</sup>
Brine:	558 m <sup>3</sup>
Liquid mud: (4 tanks):	530 m <sup>3</sup>
Dry bulk (4 tanks):	254 m <sup>3</sup>
Slop:	167 m <sup>3</sup>
Base oil:	447 m <sup>3</sup>
Rig chain locker: (4 lockers):	626 m <sup>3</sup>

#### DELIVERY RATES

Fuel oil:	250 m <sup>3</sup> /h at 9 bars
Fresh water:	150 m <sup>3</sup> /h at 9 bars
Drill water/Ballast water:	2x 250 m <sup>3</sup> /h at 9 bars
Brine:	75 m <sup>3</sup> /h at 24 bars
Liquid mud:	2x 75 m <sup>3</sup> /h at 24 bars
Base oil:	100 m <sup>3</sup> /h at 9 bars
Slop:	50 m <sup>3</sup> /h at 5 bars
Dry Bulk:	Duplex BHS compressor, 2x 30 m <sup>3</sup> /h at 5.6 bars

#### ACCOMMODATIONS

Accommodations for:	34 pers
Single cabins:	14
2 man cabins:	10
Hospital:	1
Mess / day rooms, conference room, trim room, laundry, galley, provision room, stores, office.	
Fully air conditioned.	

### MACHINERY / PERFORMANCE

#### PROPULSION - MACHINERY

Main generator engines: 4 x 2,880 kW + 2 x 1,665 kW Tendem electric propulsion motors arrangement: 2x 3,000 kW, variable speed (0-3,000 kW) + 2x 2,000 kW, fixed speed.  
Twin installation main azimuth thrusters with nozzles, controllable speed 5,000 KW each.  
Bow tunnel thruster: 1x 1,200 kW, cpp  
Bow retractable steerable thruster: 1x 1,800 kW, cpp  
Emergency/ harbour generator: 1x 370 e kW

#### SPEED

Maximum speed (@ 6.00m draft): 17 knots

### EQUIPMENT & ELECTRONICS

#### DECK EQUIPMENT

Main winch: 1 electro-hydraulic winch composed of 3 drums in waterfall arrangement, consisting of:  
Towing/working: 2 drums, 1.50/3.20 m diam. x 2.30 m length each  
- Wire capacity: 2,500 m of 3"  
- Brake holding load: 500 mt on 1st layer  
- Duty in hoist: 400 mt on 1st layer @ 0 - 18.7 m/min  
- Duty dynamic braking: 90 - 480 mt @ 0 - 88 m/min  
- Spooling devices: 2 for towing/working drums, side load 40 mt  
Anchor handling: 1 drum, 1.50/3.20 m diam. x 4.57 m + 0.90 m length  
- Wire capacity: 5,000 m of 3" + 900 m of 3" socket compartment  
- Duty in hoist: 400 mt on 1st layer @ 0 - 18.7 m/min  
- Duty dynamic braking: 90 - 480 mt @ 0 - 88 m/min  
Secondary winches: 2 with dividing flange socket part  
- Capacity: 1,600 m of 8" synthetic rope  
- Duty in hoist: 138 mt on 1st layer at 0 - 43 m/min  
- Duty dynamic braking: 70 mt at 0 - 70 m/min  
- Spooling devices: 2 for secondary winch, side load 20 mt  
1 storage winch: 1,700 m of 76mm spare tow wire rope, pull 10 mt  
Windlass: 1 combined mooring and windlass winch  
Stern roller: 300 mt SWL  
Shark jaws/towing pins: 2 AH forks, 500 mt SWL/ 4 towing pins  
Tuggers: 2 x 20 mt at 18 m/min  
Capstans: 2 x 15 mt at 15 m/min  
knuckle boom crane: 10 mt/16 m  
ODIM Safe Anchor Handling System (SAHS):  
- 2 tugger cranes, travelling on top of cargo rail: tugger winch 15 t SWL, crane winch 3 t SWL, max outreach 10 m.  
- Twin stern rollers system: (twin inboard) diam.1.80 x 3.00 m length  
(twin outboard) diam.1.80 x 2.00 m length  
Dynamic max load: 400 mt @ 50 m/min. - Static max load: 500 mt.

#### ELECTRONICS

##### NAVIGATION

1 radar S-band ARPA, 1 radar X-band ARPA,  
3 gyrocompasses combined with DP system, Digital chart system ECDIS,  
1 GPS, Conning station, VDR, AIS,  
speed log, 1 echo-sounder, 1 autopilot,

##### COMMUNICATION

1 complete GMDSS area A3 radio installation including:  
1 Satcom C, Satcom F, 1 INMARSAT F 77 with fax.  
E-mail and on-board computer network system.  
Internal ULSTEIN COM. Automatic exchange telephone system with facilities in each room and offices, satellite TV antenna.  
Telephone system, separate PA system, DECT.

##### DYNAMIC POSITIONING SYSTEM

DP2: Comply with DNV class notation DYNAPOS AUTR class II.  
System allowing: Joystick, automatic tracking, dynamic positioning, automatic speed control.  
Reference system: 1 DGPS 700, 1 laser reference system  
Sensors: 2 gyrocompasses, 2 wind sensors, 2 motion reference units  
Prepared for hydro acoustic reference unit with ND 500.

##### SAFETY EQUIPMENT

Fire-Fighting (Fi-Fi 1): 2 pumps of 1,500 m<sup>3</sup>/h  
2 monitors of 1,200 m<sup>3</sup>/h

Life saving arrangement: 1 Fast rescue craft (water jet) with davit,  
- 6 Life rafts for 20 persons each, with equipment,  
- Lifebuoys, life Jackets.

*All particulars believed to be correct but not guaranteed*